

FORMATIVE ASSESSMENT 2.1

INDIVIDUAL PROJECT

1. Plot the points $P(-1, 0)$, $Q(0, 1)$ and $R(2, 3)$ on the graph paper and check whether they are collinear or not.
2. Plot the points $A(4, -1)$ and $B(2, 1)$ on a graph paper and draw a line AB joining these points. Then,
 - (i) Write co-ordinates of any one point which lie on this line AB .
 - (ii) Write co-ordinates of any one point which do not lie on this line AB .
3. If we plot the points $A(-1, 0)$, $B(-1, 1)$, $C(0, 1)$ and $D(0, 0)$ on Cartesian plane, name the figure formed by joining the points in order.
4. Plot the points $A(2,3)$, $B(2, 1)$, $C(0, 1)$ and $D(0,3)$. Join the points and identify the figure obtained. Find its perimeter.
5. Plot the points $A(5, 5)$ and $B(-5, 5)$ in Cartesian plane. Join AB , OA and OB . Name the type of triangle so obtained.
6. Mark the points $A(2, 2)$, $B(2, -2)$, $C(-2, -2)$ and $D(-2, 2)$ on a graph paper and join these points in order. Identify the figure so obtained. Also, find the area of the figure.
7. Three vertices of rectangle are $(3, 2)$, $(-4, 2)$ and $(-4, 5)$. Plot these points and find the co-ordinates of the fourth vertex.
8. Find the area of the triangle whose vertices are $(0, 4)$, $(0, 0)$ and $(2, 0)$ by plotting them on graph.
9.
 - (i) Plot the points $A(0, 4)$, $B(-3, 0)$, $C(0, -4)$, $D(3, 0)$
 - (ii) Name the figure obtained by joining the points A , B , C D .
 - (iii) Name the quadrants in which sides AB and AD lie.
10. Plot the following points, join them in order and identify the figure thus formed. $A(1, 3)$, $B(1, -1)$, $C(7, -1)$ and $D(7, 3)$. Write the coordinates of the point of intersection of the diagonals.

